CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

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Job No.: CTCE/BBMP/W.No.10/RLN/CEMENT/2012-13

Date: 23.03.2013

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
AGENCY	:	**Mr. R. Lakshminarayana**, Contractor, Bangalore.
NAME OF THE WORK	:	Construction of RCC Drain, Covering Slab and Improvements to Roads at 2nd Stage Nanjappa Layout in Ward No.10, Doddabommasandra, Vidyaranyapura Sub Division, BBMP, Bangalore.
REFERENCE	:	AEE/VSD/PR/463/2012-13 Dated: 20.03.2013
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	125 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	475 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.00 %	-

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Job No.: CTCE/BBMP/W.No.10/NNR/SAND/2012-13 : 23.03.2013

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Mr. R. Lakshminarayana,** Contractor, Bangalore.

Name of Work : Construction of RCC Drain, Covering Slab and Improvements to Roads at 2nd Stage Nanjappa Layout in Ward No.10, Doddabommasandra, Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : AEE/VSD/PR/463/2012-13 Dated: 20.03.2013

Date of Testing : 23.03.2013

Material : Sand Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	97	4.85	4.85	95.2	90-100
2.36	229	11.45	16.30	83.7	75-100
1.18	515	25.75	42.05	58.0	55-90
600 Micron	430	21.50	63.55	36.5	35-59
300 Micron	480	24.00	87.55	12.5	8-30
150 Micron	210	10.50	98.05	2.0	0-10

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Job No.: CTCE/BBMP/W.No.10/NNR/AGG/2012-13 : 23.03.2013

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Mr. R. Lakshminarayana,** Contractor, Bangalore.

Name of Work : Construction of RCC Drain, Covering Slab and Improvements to Roads at 2nd Stage Nanjappa Layout in Ward No.10, Doddabommasandra, Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : AEE/VSD/PR/463/2012-13 Dated: 20.03.2013

Date of Testing : 23.03.2013

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **25600**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	986	3.85	3.85	96.15	95-100
20	15634	61.07	64.92	35.08	30-70
10	5982	23.37	88.29	11.71	10-35
4.75	2638	10.30	98.59	1.41	0-5

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Job No.: CTCE/BBMP/W.No.10/NNR /STEEL/2012-13 25.03.2013

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	:	**Mr. R. Lakshminarayana**, Contractor, Bangalore.
Name of the work	:	Construction of RCC Drain, Covering Slab and Improvements to Roads at 2nd Stage Nanjappa Layout in Ward No.10, Doddabommasandra, Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	:	AEE/VSD/PR/463/2012-13 Dated: 20.03.2013
Date of Test	:	25.03.2013
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
2	10	0.62	513	552	13.25	O.K	O.K
3	12	0.89	515	556	13.65	O.K	O.K

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Job No.: CTCE/BBMP/W.No.10/NNR/CUBE/2012-13 27.04.2013

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	: **Mr. R. Lakshminarayana,** Contractor, Bangalore.
Name of the work	: Construction of RCC Drain, Covering Slab and Improvements to Roads at 2nd Stage Nanjappa Layout in Ward No.10, Doddabommasandra, Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	: AEE/VSD/PR/463/2012-13 Dated: 20.03.2013
Sample ID	: RCC Drain Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.03.2013	27.04.2013	8.152	519.3	23.08
2	30.03.2013	27.04.2013	8.287	528.9	23.51
3	30.03.2013	27.04.2013	8.319	537.4	23.88

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Job No.: CTCE/BBMP/W.No.10/NNR/CUBE/2012-13 29.04.2013

TEST REPORT ON CONCRETE CUBES

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Agency	: **Mr. R. Lakshminarayana,** Contractor, Bangalore.
Name of the work	: Construction of RCC Drain, Covering Slab and Improvements to Roads at 2nd Stage Nanjappa Layout in Ward No.10, Doddabommasandra, Vidyaranyapura Sub Division, BBMP, Bangalore.
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Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.04.2013	29.04.2013	8.237	515.2	22.90
2	01.04.2013	29.04.2013	8.452	532.7	23.68
3	01.04.2013	29.04.2013	8.396	524.3	23.30

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